

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



10/553289



(43) International Publication Date  
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number  
WO 2004/092490 A1

(51) International Patent Classification<sup>7</sup>: E02F 3/38, A01G 23/085

(74) Agent: VERMETTE & CO.; Box 40, Granville Square, 230-200 Granville Street, Vancouver, British Columbia V6C 1S4 (CA).

(21) International Application Number:  
PCT/CA2004/000577

(22) International Filing Date: 19 April 2004 (19.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/463,349 17 April 2003 (17.04.2003) US

(71) Applicant (for all designated States except US): INT. SILVATECH INDUSTRIES INC. [CA/CA]; 27489 - 56th Avenue, Langley, British Columbia V4W 3X1 (CA).

(72) Inventors; and

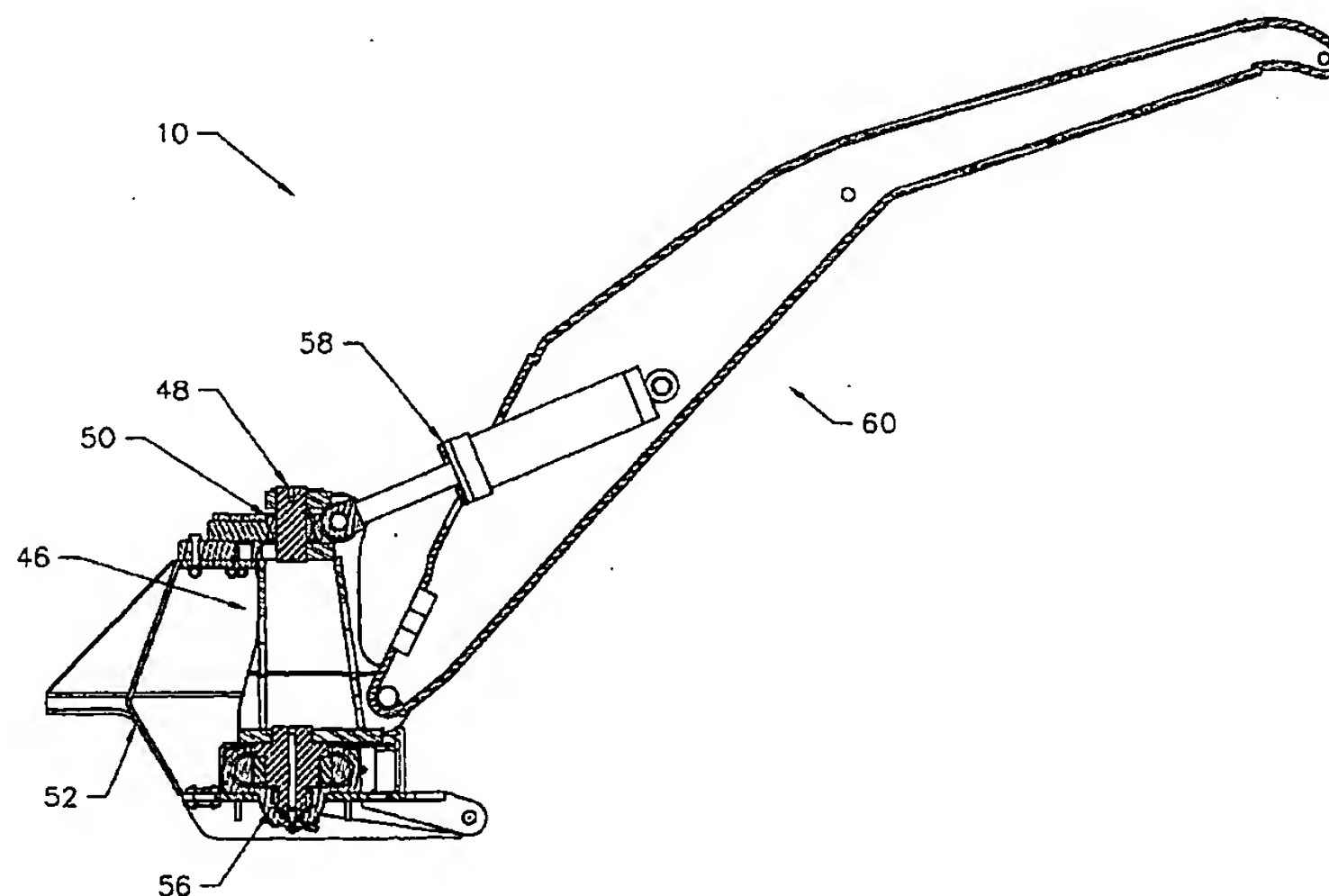
(75) Inventors/Applicants (for US only): DYCK, Gerald [CA/CA]; 37667 Dawson Road, Abbotsford, British Columbia V3G 2K9 (CA). DRIES, Paul [CA/CA]; 2734 Mara Drive, Coquitlam, British Columbia V3C 5R9 (CA). SNIPSTEAD, Brent [CA/CA]; 32936 Fourteenth Avenue, Mission, British Columbia V2V 2P2 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SWING BOOM PIVOT MECHANISM



(57) Abstract: The present invention relates to a swing boom assembly (10), which has a fixed base (52), a pivot base (40) rotatably mounted on the fixed base, and a boom (60) pivotally coupled to the pivot base. The boom is coupled proximate a lower end of the pivot base and has a hydraulic piston cylinder (59) coupled between the boom and an upper end of the pivot base. The hydraulic piston cylinder is operative to raise and lower the boom. The pivot base has an upper shaft (48), a main body (54) having a pair of spaced apart clevis plates affixed to each end of the upper shaft, and a spherical bearing (50) rigidly mounted around the upper shaft between the clevis plates and said bearing having an outer race rigidly mounted to the fixed base. The hydraulic piston cylinder is coupled to the main body of the pivot base rather than directly to an upper shaft.

WO 2004/092490 A1



**Published:**

- with international search report
- with amended claims and statement

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Date of publication of the amended claims and statement:**

16 December 2004